ROCKBUSTER

STEALTH LLC

Data Dictionary

ABSTRACT

Rockbuster Stealth LLC is a movie rental company that used to have stores around the world. Facing stiff competition from streaming services such as Netflix and Amazon Prime, the Rockbuster Stealth management team is planning to use its existing movie licenses to launch an online video rental service in order to stay competitive. The Rockbuster Stealth Management Board has asked a series of business questions and they expect data-driven answers that they can use for their 2020 company strategy.

Rangamani Varadachary

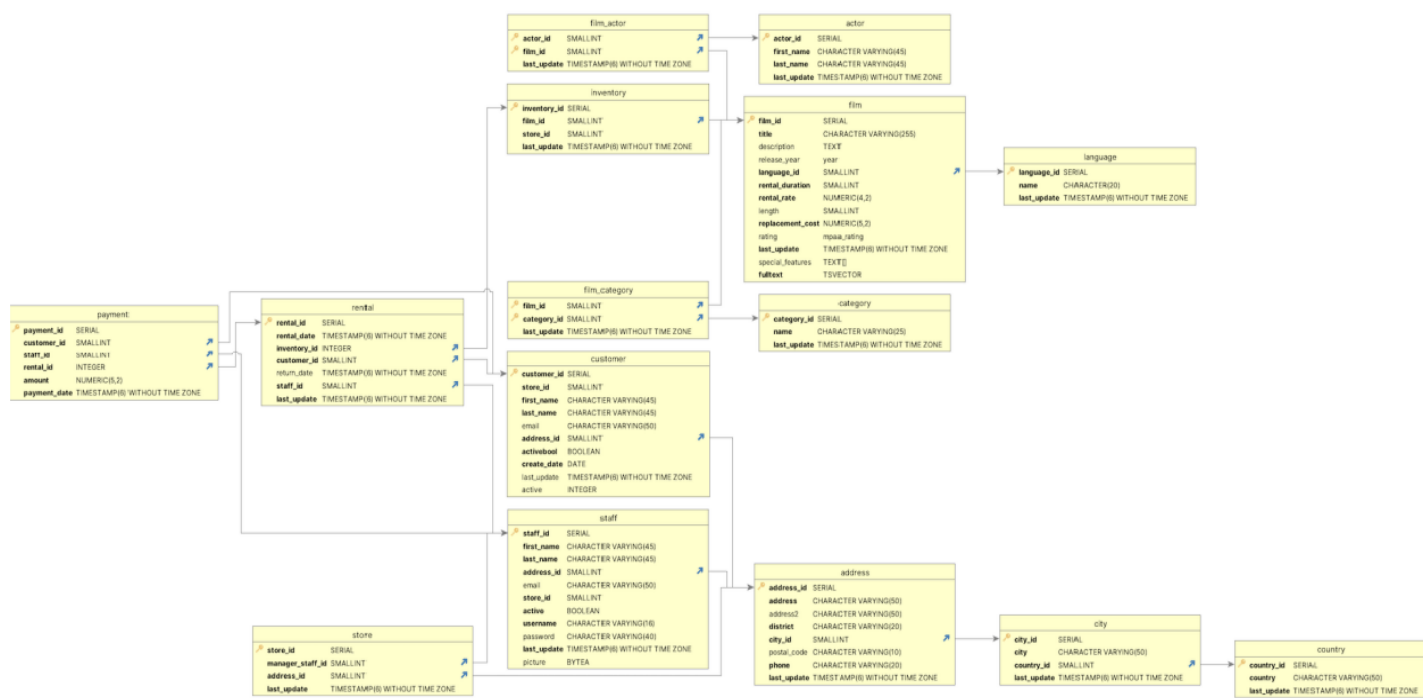**Table of Contents**

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1. Entity Relationship Diagram

You can download Rockbuster database here:

http://www.postgresqltutorial.com/wp-content/uploads/2019/05/dvdrental.zip

2. Tables

2.1 Table: **film_actor**
Type: Fact table

Columns	Key	Data type	Description
actor_id	Primary key/foreign key	SMALLINT	unique identifier for actor
film_id	Primary key/foreign key	SMALLINT	unique identifier for film
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of film actor

Links to:

Table	Join	Description
actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor id
film	film_actor.film_id = film.film_id	Foreign key constraint referencing film.film_id

Links from: None

2.2 Table: **inventory**
Type: Fact table

Columns	Key	Data type	Description
inventory _id	Primary key	SERIAL	unique identifier for inventory
film_id	Foreign key	SMALLINT	unique identifier for film
store_id		SMALLINT	unique identifier for store
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of inventory

Links to:

Table	Join	Description
film	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id

Links from:

Table	Join	Description
rental	rental.inventory _id = inventory.inventory _id	Foreign key constraint referencing inventory.inventory _id

2.3 Table: **film_category**
Type: Fact table

Columns	Key	Data type	Description
film_id	Primary key/foreign key	SMALLINT	unique identifier for film
category_id	Primary key/foreign key	SMALLINT	unique identifier for category
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of film category

Links to:

Table	Join	Description
film	film_ category.film_id = film.film_id	Foreign key constraint referencing film.film_id
category_id	film_ category.category_id = category. category_id	Foreign key constraint referencing category. category_id

Links from: None

2.4 Table: **rental**

Type: Fact table

Columns	Key	Data type	Description
rental_id	Primary key	SERIAL	unique identifier for rental
rental_date		TIMESTAMP(6) WITHOUT TIME ZONE	Rental date
inventory_id	Foreign key	INTEGER	unique identifier for inventory
customer_id	Foreign key	SMALLINT	unique identifier for customer
return_date		TIMESTAMP(6) WITHOUT TIME ZONE	Rental return date
staff_id	Foreign key	SMALLINT	unique identifier for staff
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of rental

Links to:

Table	Join	Description
inventory	rental.inventory _id = inventory. inventory _id	Foreign key constraint referencing inventory. inventory _id
customer	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
staff	rental.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id

Links from:

Table	Join	Description
payment	payment.rental _id = rental.rental _id	Foreign key constraint referencing rental.rental _id

2.5 Table: **payment**

Type: Fact table

Columns	Key	Data type	Description
payment_id	Primary key	SERIAL	unique identifier for payment
customer_id	Foreign key	TIMESTAMP(6) WITHOUT TIME ZONE	unique identifier for customer
staff_id	Foreign key	INTEGER	unique identifier for staff
rental_id	Foreign key	SMALLINT	unique identifier for rental
amount		TIMESTAMP(6) WITHOUT TIME ZONE	Payment amount
payment_date		SMALLINT	Payment date

Links to:

Table	Join	Description
customer	payment.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id
staff	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
rental	payment.rental_id = rental.rental_id	Foreign key constraint referencing rental.rental_id

Links from: None

2.6 Table: **store**

Type: Fact table

Columns	Key	Data type	Description
store _id	Primary key	SERIAL	unique identifier for store
manager_staff_id	Foreign key	SMALLINT	unique identifier for manager staff
address_id	Foreign key	SMALLINT	unique identifier for address
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of inventory

Links to:

Table	Join	Description
staff	store.manager_staff_id = staff.staff_id	Foreign key constraint referencing staff. staff _id
address	store.address_id = address. address _id	Foreign key constraint referencing address. address _id

Links from: None

2.7 Table: **actor**

Type: Dimension table

Columns	Key	Data type	Description
actor_id	Primary key	SERIAL	unique identifier for actor
first_name		CHARACTER VARYING(45)	Actor first name
last_name		CHARACTER VARYING(45)	Actor last name
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of actor

Links to: None

Links from:

Table	Join	Description
film_actor	film_actor.actor_id = actor.actor_id	Foreign key constraint referencing actor.actor_id

2.8 Table: **category**

Type: Dimension table

Columns	Key	Data type	Description
category_id	Primary key	SERIAL	unique identifier for category
name		CHARACTER VARYING(25)	Category name
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of category

Links to: None

Links from:

Table	Join	Description
film_category	film_category.category_id = category.category_id	Foreign key constraint referencing category.category_id

2.9 Table: **film**

Type: Dimension table

Columns	Key	Data type	Description
film_id	Primary key	SERIAL	unique identifier for film
title		CHARACTER VARYING(255)	Film title
description		TEXT	Title description
release_year		YEAR	Film release year
language_id	Foreign key	SMALLINT	unique identifier for language
rental_duration		SMALLINT	Film Rental duration
rental_rate		NUMERIC(4,2)	Film rental rate
length		SMALLINT	Film length
replacement_cost		NUMERIC(5,2)	Film replacement cost
rating		MPAA_RATING	Film rating
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of film
special_features		TEXT	Film special features
fulltext		TSVECTOR	Film fulltext

Links to:

Table	Join	Description
language	film.language_id = language. language _id	Foreign key constraint referencing language. language _id

Links from:

Table	Join	Description
film_actor	film_actor.film_id = film.film_id	Foreign key constraint referencing film.film_id
inventory	inventory.film_id = film.film_id	Foreign key constraint referencing film.film_id
film_category	Film_category.film_id = film.film_id	Foreign key constraint referencing film.film_id

2.10 Table: **language**

Type: Dimension table

Columns	Key	Data type	Description
language_id	Primary key	SERIAL	unique identifier for language
name		CHARACTER(20)	Language name
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of language

Links to: None

Links from:

Table	Join	Description
film	film.language_id = language. language _id	Foreign key constraint referencing language. language _id

2.11   Table: **customer**

Type: Dimension table

Columns	Key	Data type	Description
customer_id	Primary key	SERIAL	unique identifier for customer
store_id		SMALLINT	unique identifier for store
first_name		CHARACTER VARYING(45)	Customer first name
last_name		CHARACTER VARYING(45)	Customer last name
email		CHARACTER VARYING(50)	Customer email
address_id	Foreign key	SMALLINT	unique identifier for address
activebool		BOOLEAN	Customer active status
create_date		DATE	Customer create date
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of customer
active		INTEGER	Customer status

Links to:

Table	Join	Description
address	customer.address_id = address. address _id	Foreign key constraint referencing address. address _id

Links from:

Table	Join	Description
rental	rental.customer_id = customer.customer_id	Foreign key constraint referencing customer.customer_id

2.12   Table: **staff**

Type: Dimension table

Columns	Key	Data type	Description
staff_id	Primary key	SERIAL	unique identifier for staff
first_name		CHARACTER VARYING(45)	Staff first name
last_name		CHARACTER VARYING(45)	Staff last name
address_id	Foreign key	SMALLINT	Staff address
email		CHARACTER VARYING(50)	Staff email
store_id		SMALLINT	Unique identifier for store
active		BOOLEAN	Staff active status
username		CHARACTER VARYING(16)	Staff username
password		CHARACTER VARYING(40)	Staff password
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of store
picture		BYTEA	Staff picture

Links to:

Table	Join	Description
address	staff.address_id = address. address _id	Foreign key constraint referencing address. address _id

Links from:

Table	Join	Description
payment	payment.staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
rental	rental. staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id
store	store. staff_id = staff.staff_id	Foreign key constraint referencing staff.staff_id

2.13   Table: **address**
Type: Dimension table

Columns	Key	Data type	Description
address_id	Primary key	SERIAL	Unique identifier for address
address		CHARACTER VARYING(50)	address
address2		CHARACTER VARYING(50)	Additional address line
district		CHARACTER VARYING(20)	Address district
city_id	Foreign key	SMALLINT	Unique identifier of city
postal_code		CHARACTER VARYING(10)	Address postal code
phone		CHARACTER VARYING(20)	Address phone
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of address

Links to:

Table	Join	Description
city	address.city_id = city.city _id	Foreign key constraint referencing city.city _id

Links from:

Table	Join	Description
customer	customer. address _id = address. address _id	Foreign key constraint referencing address.address_id
staff	staff. address _id = address. address _id	Foreign key constraint referencing address.address_id
store	store. address_id = address. address _id	Foreign key constraint referencing address.address_id

2.14 Table: **city**

Type: Dimension table

Columns	Key	Data type	Description
city_id	Primary key	SERIAL	Unique identifier for city
city		CHARACTER VARYING(50)	City name
country_id	Foreign key	SMALLINT	Unique identifier for country
Last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of city

Links to:

Table	Join	Description
country	city.country_id = country. country _id	Foreign key constraint referencing country. country _id

Links from:

Table	Join	Description
address	address.city_id = city.city_id	Foreign key constraint referencing city.city_id

2.15 Table: **country**

Type: Dimension table

Columns	Key	Data type	Description
country_id	Primary key	SERIAL	Unique identifier for country
country		CHARACTER VARYING(50)	Country name
last_update		TIMESTAMP(6) WITHOUT TIME ZONE	Last update of country

Links to: None

Links from:

Table	Join	Description
city	city. country _id = country. country _id	Foreign key constraint referencing country. country _id